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APPLICATION NO.	FILING DATE			TENTS AND TRADEMARKS	
0 9 7615.158		FIRST NAMED INVI	ENTOR	ATTORNEY DOCKET NO.	
		A PARALLETT, Probable	- C	235.0000000	
MUETINS RAASCH & GEBH P O BOX 581415		HM22/0815 7		EXAMINER	
MINNEAPOLIS			ART UNIT	PAPER NUMBER	
			1645 Date Mailed	8	
			יים	08/15/01	

Please find below and/or attached an Office communication concerning this application or

Commissioner of Patents and Trademarks

PTO-90C (Rev 11/00)

•	Application No.	Applicant(s)
Office Action Summary	09/518,156	TARLETON ET AL.
	Examin r	Art Unit
The MAILING DATE of this	lesha P Fields	1645
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspond nce address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s - Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b). Status	FR 1.136 (a). In no event, however, may a run. In a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT	eply be timely filed (30) days will be considered timely.
1) Responsive to communication(s) filed on		
26V 1 This is a second	This action is non-final.	
3) Since this application is in condition for all closed in accordance with the practice unconditions.	lowers	ers, prosecution as to the merits is
Disposition of Claims		
4) Claim(s) is/are pending in the applic	cation	
4a) Of the above claim(s) is/are without	drawn from consideration	
5) Claim(s) is/are allowed.	and morn consideration.	
6) Claim(s) <u>40-44,46-50,65-67 and 69</u> is/are re	eiected	
7) Claim(s) is/are objected to.	-, -, -, -, -, -, -, -, -, -, -, -, -, -	
8) Claims are subject to restriction and	d/or election requirement	
Application Papers	er ereddir reddirement.	
9) The specification is objected to by the Exam	da -	
10) The drawing(s) filed on is/are objecte	iner.	
11) The proposed drawing correction filed on	a to by the Examiner.	
11) The proposed drawing correction filed on12) The oath or declaration is objected to by the	is: a) approved b) di	sapproved.
	Examiner.	
riority under 35 U.S.C. § 119		
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. § 11	9(a)-(d) or (f).
a) None of:		
1. Certified copies of the priority documer	nts have been received.	
2. Certified copies of the priority documer	nts have been received in Appli	cation No
3. Copies of the certified copies of the pricapplication from the International B * See the attached detailed Office action for a lis	ority documents have been rec	eived in this National Stage
14) Acknowledgement is made of a claim for dom	nestic priority under 35 U.S.C. §	119(e).
achment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	18) 🔲 Interview Sum	mary (PTO-413) Paper No(s).
Information Disclosure Statement(s) (PTO-1449) Paper No(s)	19) Notice of Information 20) Other:	mal Patent Application (PTO-152)

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DETAILED ACTION

Applicant's election with traverse of Group IV (Paper Number 7) received on July 30, 2001 is acknowledged. Applicant's have elected claims 40-69, Trypanosoma as the protozoan species, a polynucleotide as the vaccine component species, and therapeutic immunization as the vaccine administration species. The traversal is on the grounds that the species of Group IV can be searched without serious burden to the Examiner. The argument that the restriction is improper because all of the species found in Group IV can be searched without serious burden is not found persuasive. It is the Examiner's position that it would be an undue burden to search each species found in Group IV. For example prior art of Trypanosoma species in claim 41 would not necessarily reveal prior art of Leishmania, Toxoplasma, or Eimeria species recited in the same claim or as the applicant has indicated, a therapeutic immunization could be readily be searched separately from a prophylactic administration. The species recited in the claims are not co-extensive particularly with regard to the literature search thereby necessitating separate searches as indicated by the divergent subject matter and different classification. Consequently, the claims readable on the elected species are claims 40-44, 46-50, 65-67 and 69. Claims 1-39, 45, 51-64, 68, and 70-73 have been withdrawn from further consideration.

The requirement is still deemed proper and is therefore made FINAL.

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Information Disclosure Statement

The information disclosure statement filed October 4, 2000 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 40-44, 46-50, 65-67 and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert et al. in view of Denkers et al.

The claims are drawn to a protozoan vaccine that stimulates a CD8⁺ T cell response.

Lambert et al. (US Patent 5,646,114) disclose a method of therapeutic immunization of a mammal harboring a protozoan infection comprising administrating a vaccine. Lambert et al. further disclose that the protozoan species is *Trypanosoma cruzi* (See Detailed Description of the Invention).

Lambert et al. does not teach of a protozoan vaccine that stimulates a CD8⁺ T cell response.

Denkers et al. (Clin. Microbiol. Rev. 1998 Vol. 11 p.569-588) teach that one of the most distinctive features of *Trypansoma* infection is the strong cell-mediated response (See Entire Document especially page 578 Cytolytic T-Cell Activity Section). Denkers et al. further teach that cytokines such as CD8⁺ contribute greatly to protection of an animal against *Trypanosoma* infection.

Given that 1) Lambert et al. has taught of a method of immunizing a mammal harboring a protozoan infection comprising administrating a vaccine and that 2) Denkers et al. has taught that *Trypansoma* infection elicits a strong cell-mediated response it

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would have been prima facie obvious to one of ordinary skill in the art at the time of the

invention to make a protozoan vaccine that stimulates a CD8⁺ T cell response. One

would have been motivated to make such a vaccine in view of the teachings of Denker

et al. that identification and cloning of parasite molecules could lead to the development

of new vaccines.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to lesha P Fields whose telephone number is (703) 605-

1208. The examiner can normally be reached on 7am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynette Smith can be reached on (703) 308-3909. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 305-3014

for regular communications and (703) 308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0196.

lesha Fields

August 13, 2001

MARK NAVARRO PRIMARY EXAMINER